

Figure 1

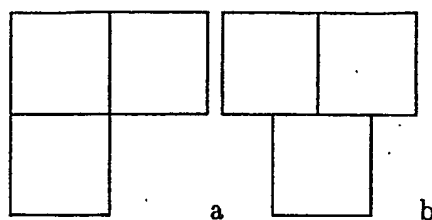


Figure 2

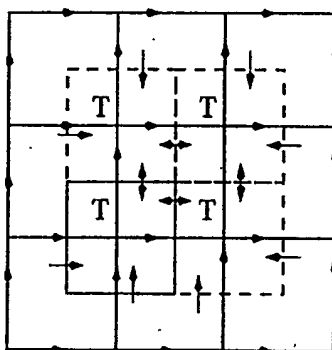


Figure 3



Figure 4

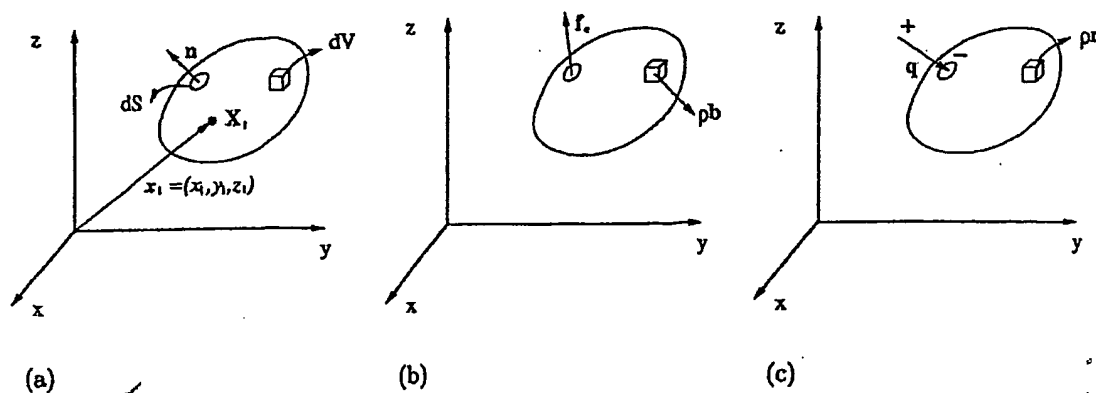


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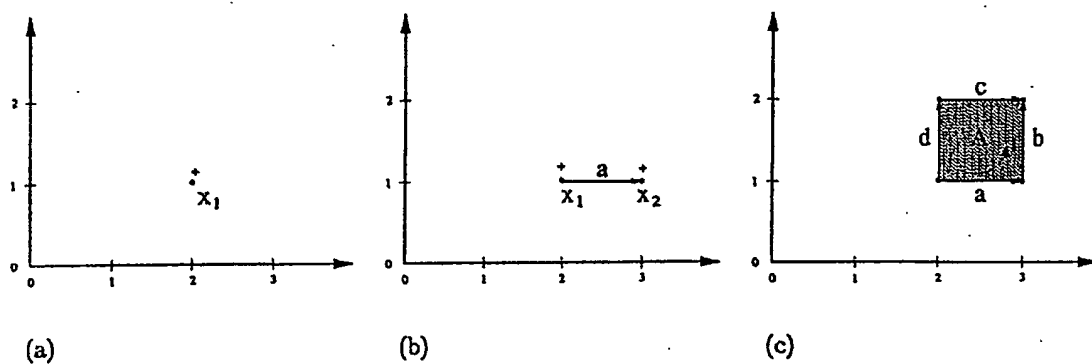


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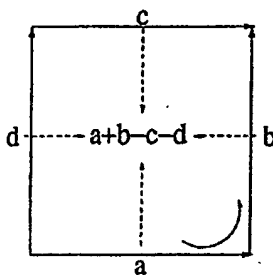


Figure 7

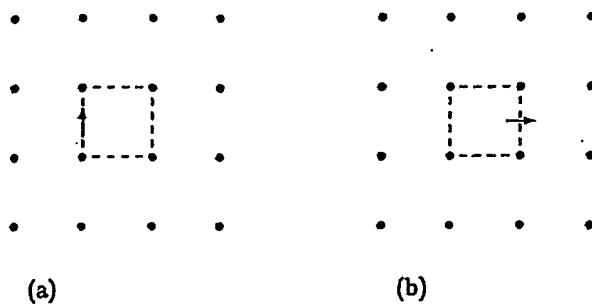


Figure 8

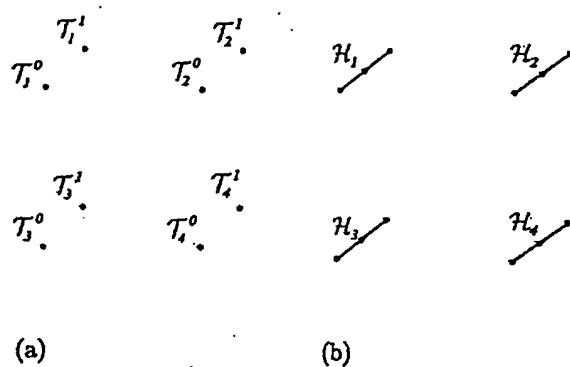


Figure 9

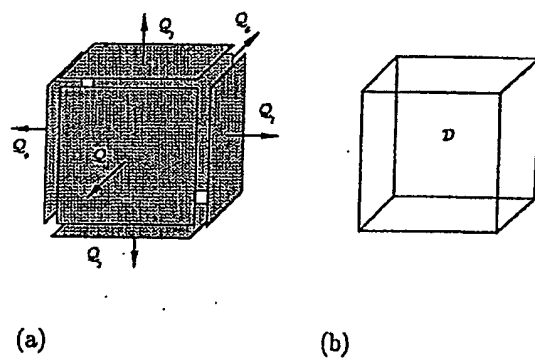


Figure 10

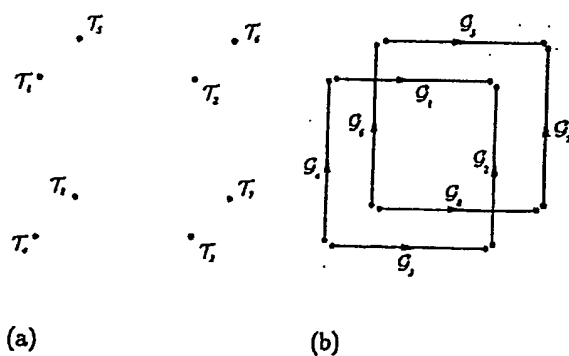


Figure 11

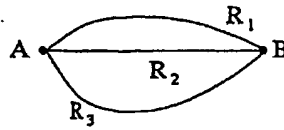


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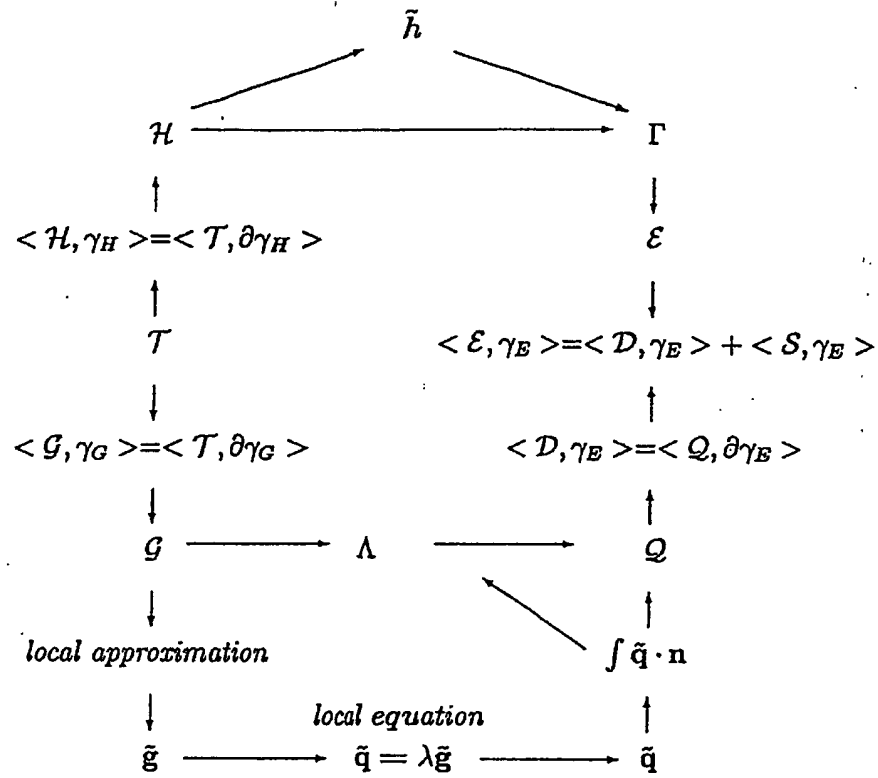


Figure 13

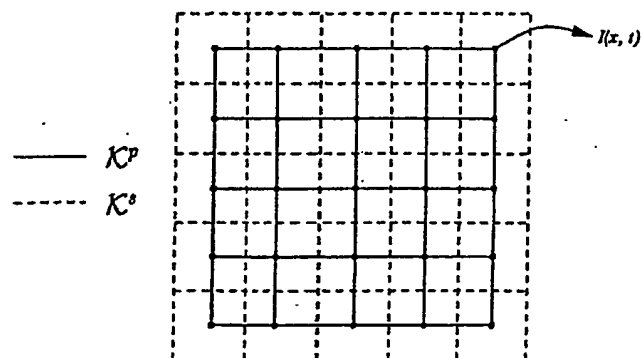


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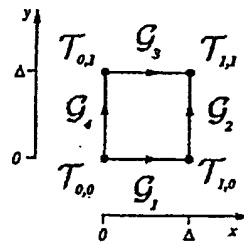
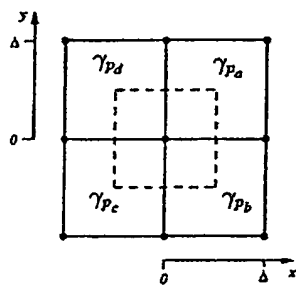
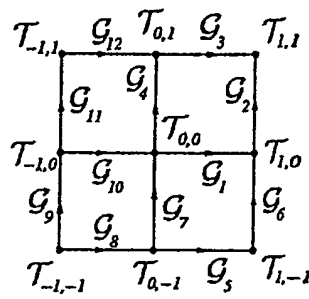


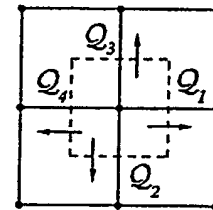
Figure 15



(a)



(b)



(c)

Figure 16

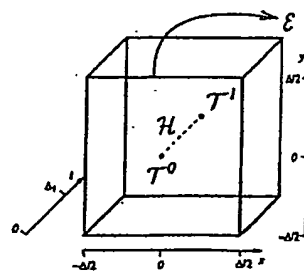


Figure 17

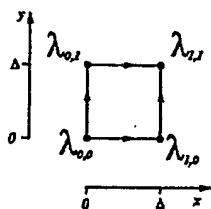
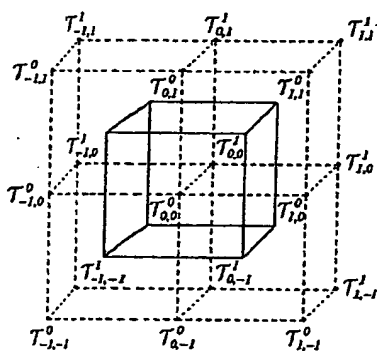
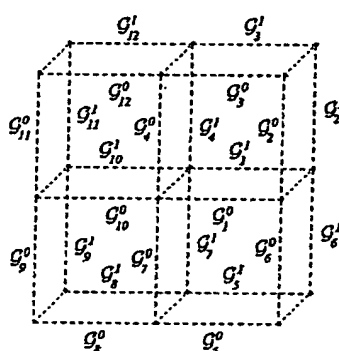


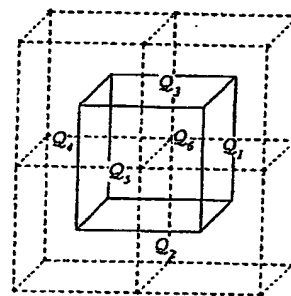
Figure 18



(a)



(b)



(c)

Figure 19

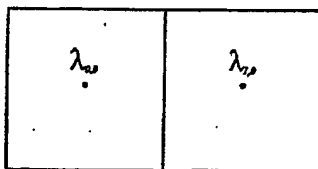


Figure 20

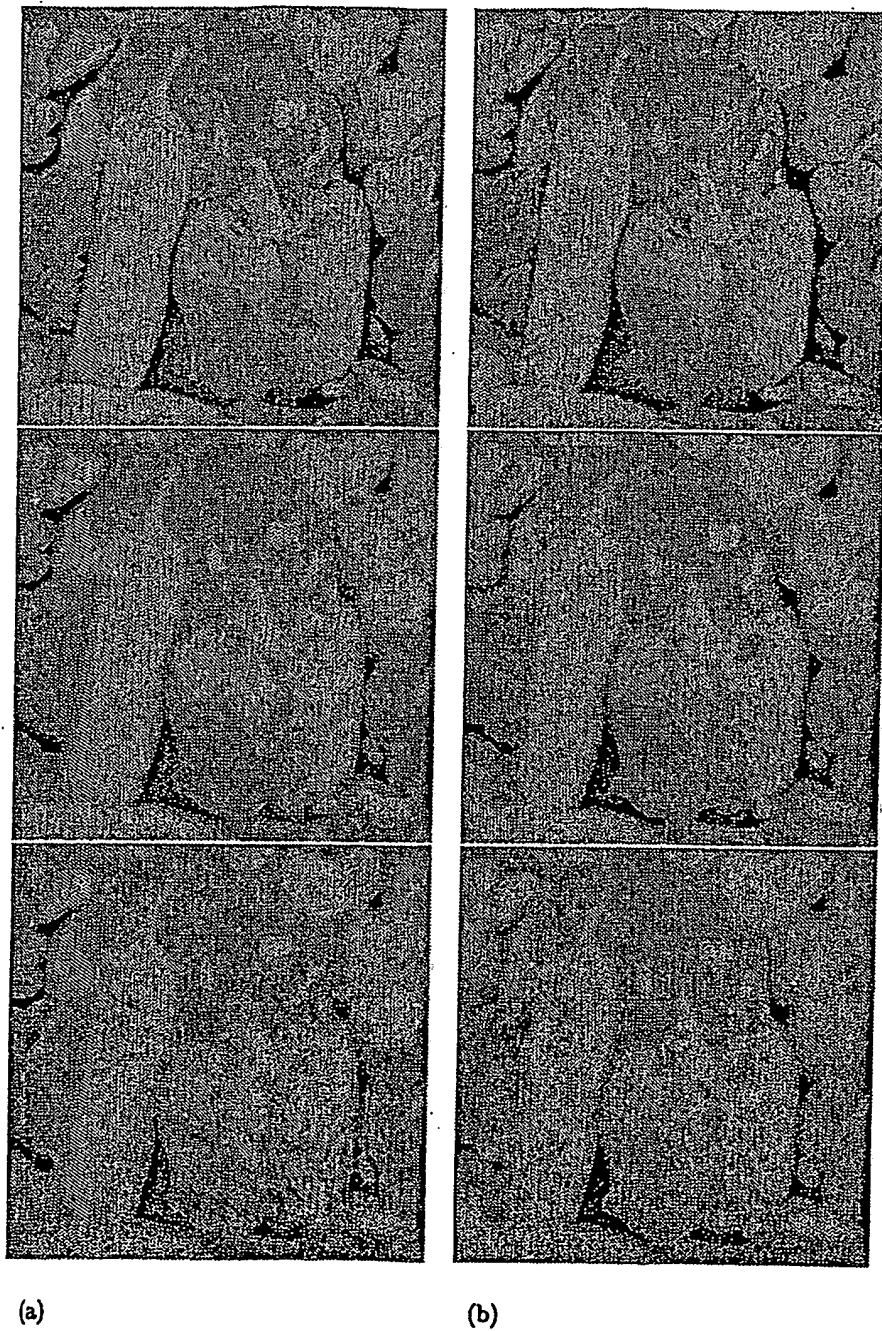
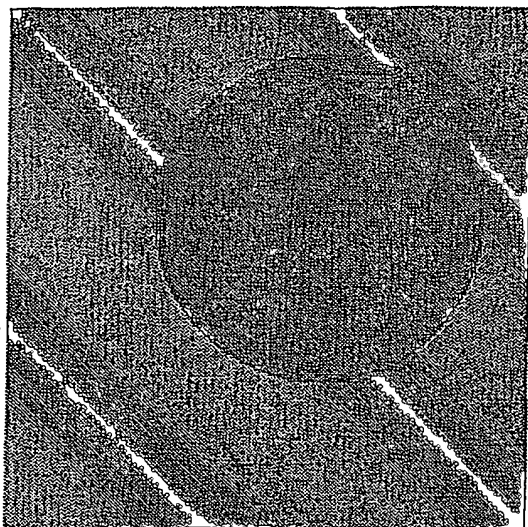
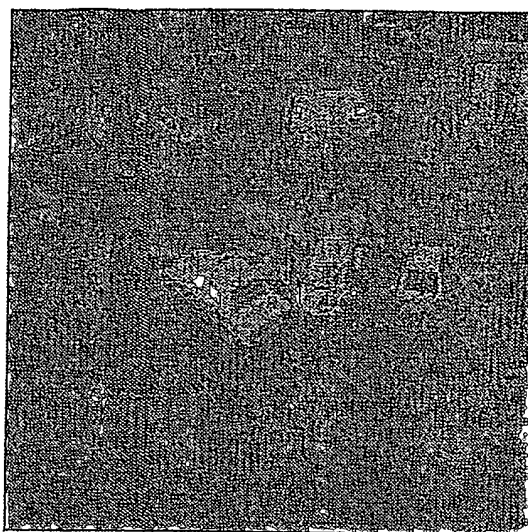


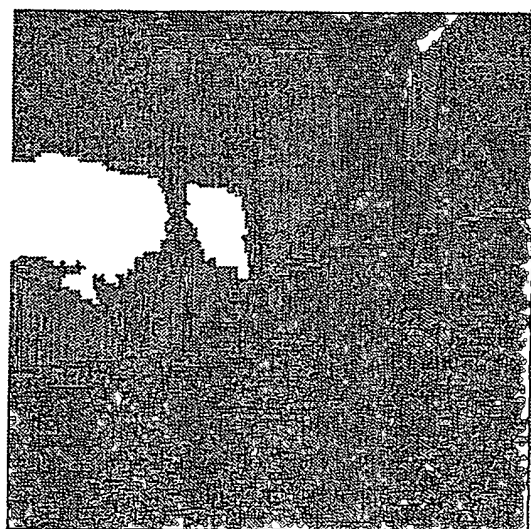
Figure 21



(a)



(b)



(c)

Figure 22

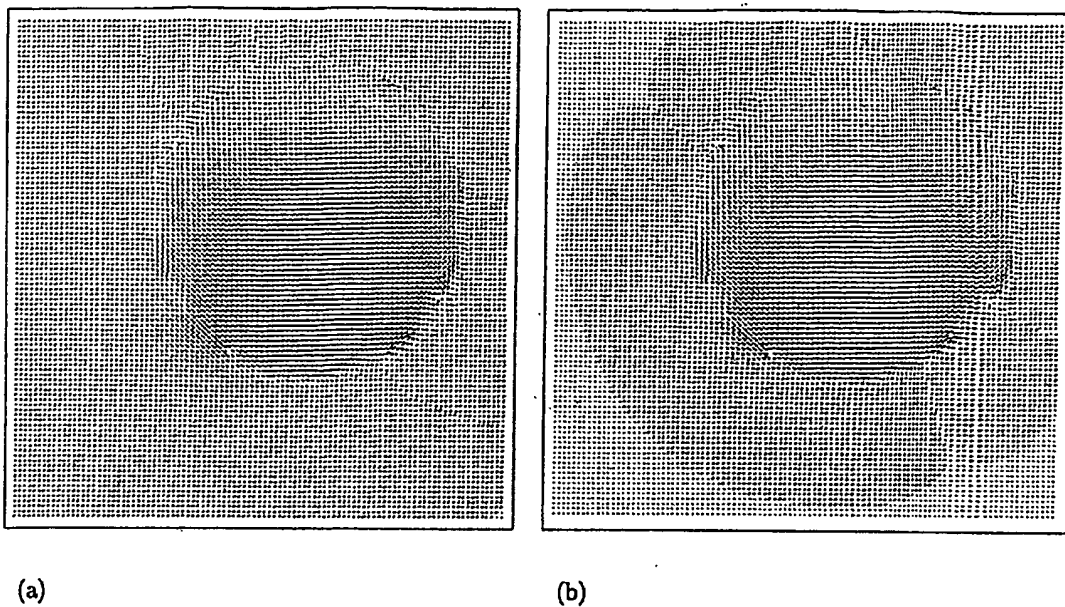


Figure 23

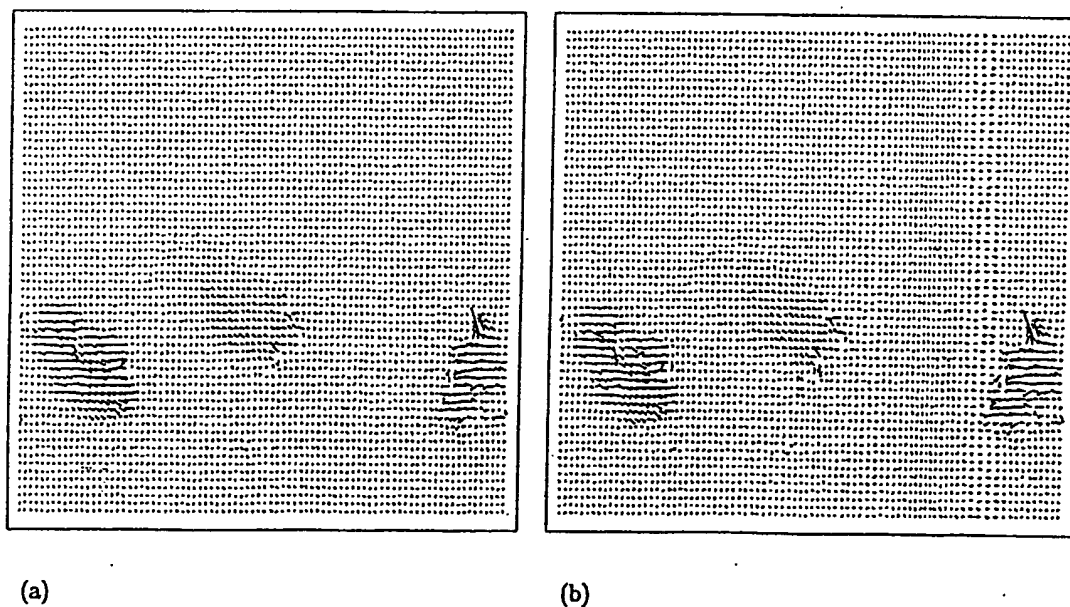


Figure 24

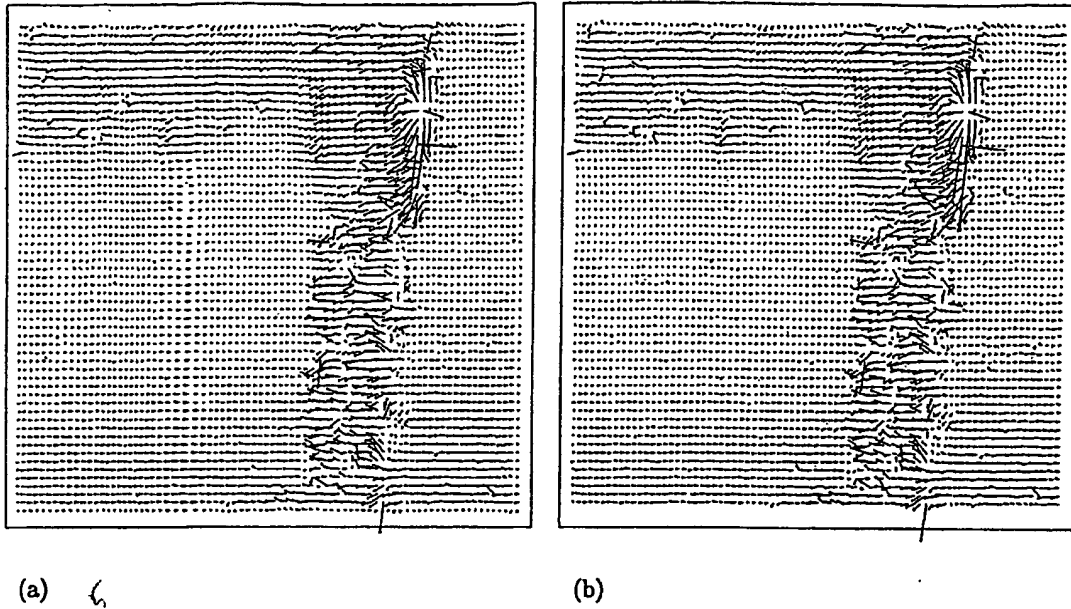
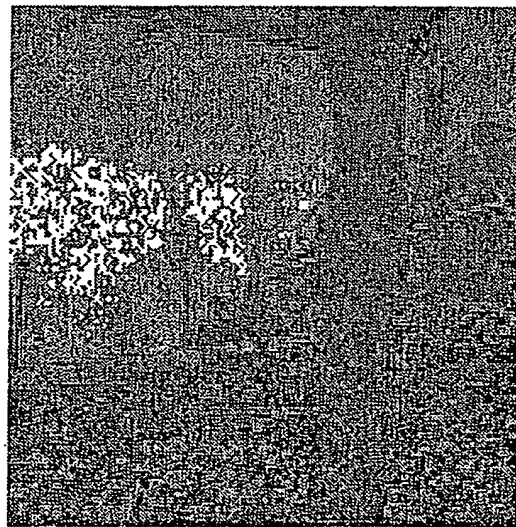


Figure 25



(a)

Figure 26

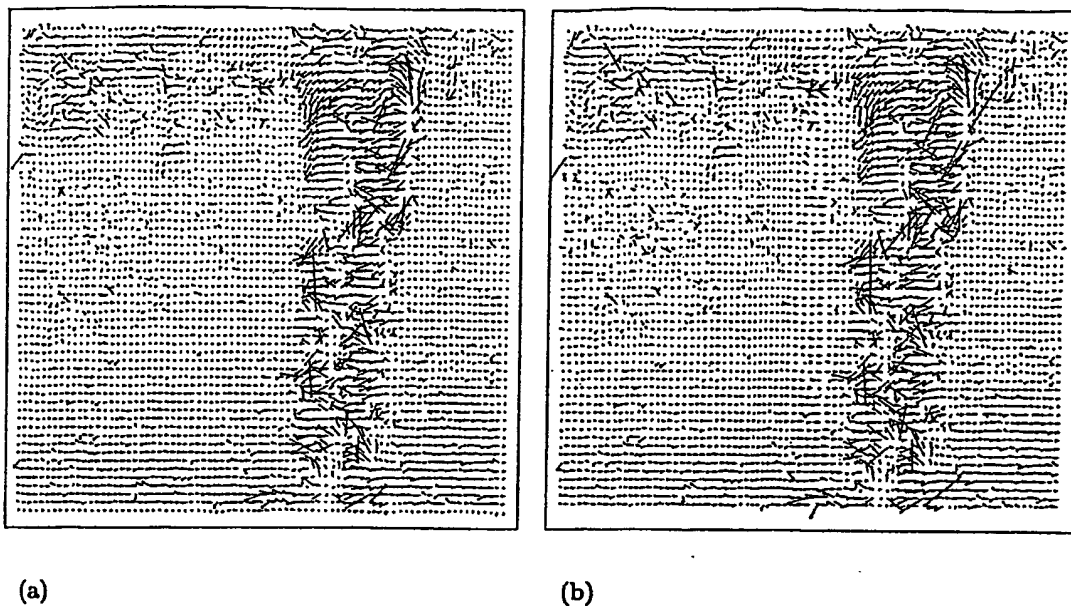
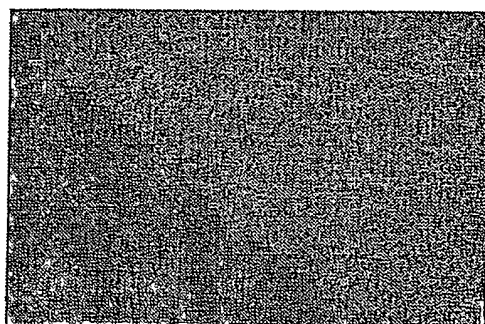
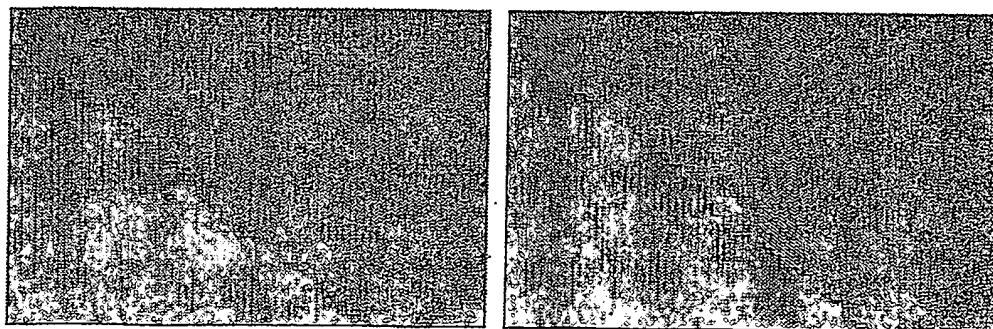


Figure 27



(a)



(b)

(c)

Figure 28

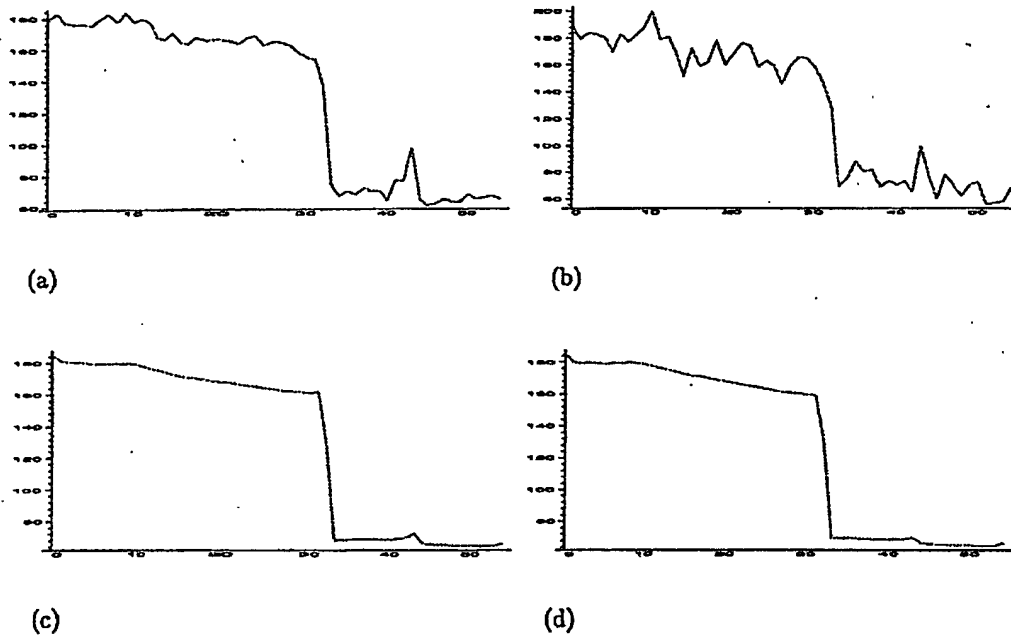
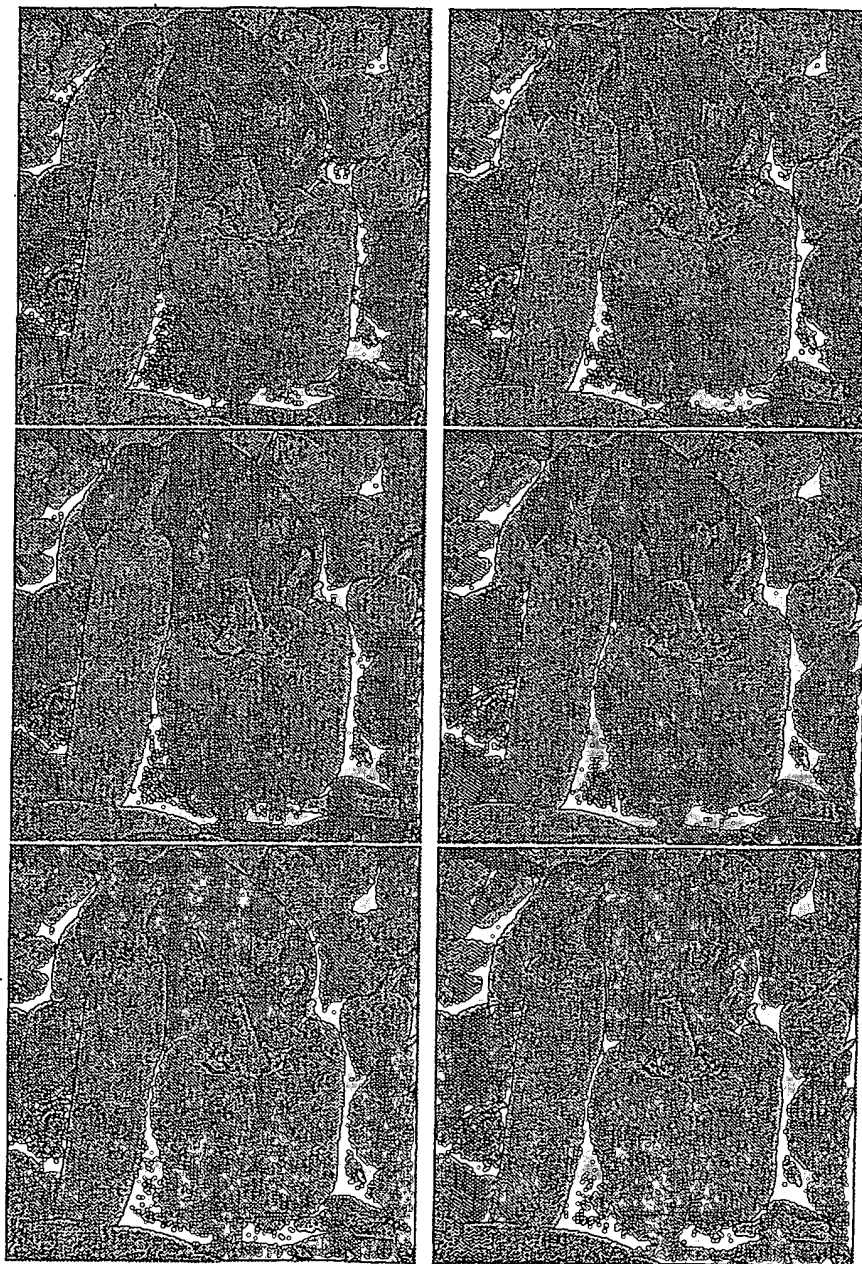


Figure 29



(a)

(b)

Figure 30



(a)



(b)

Figure 31

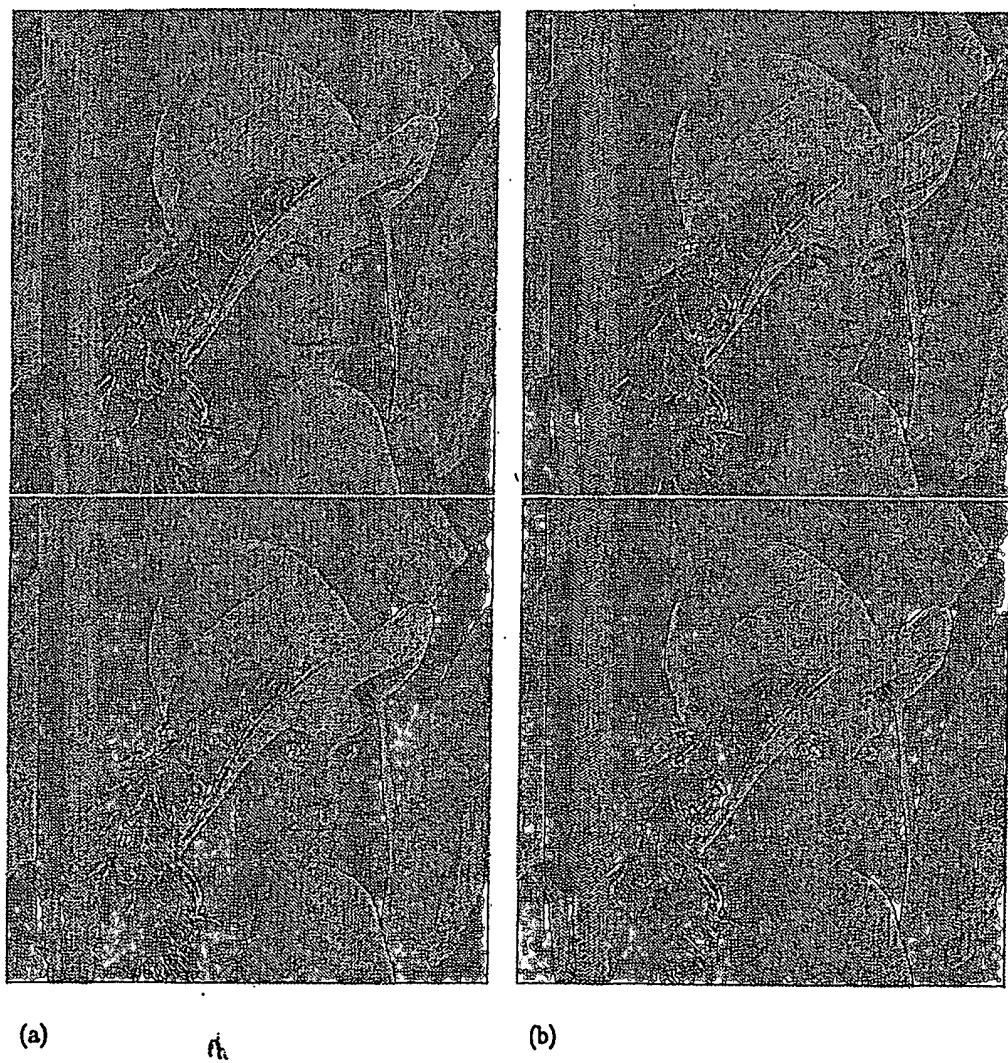
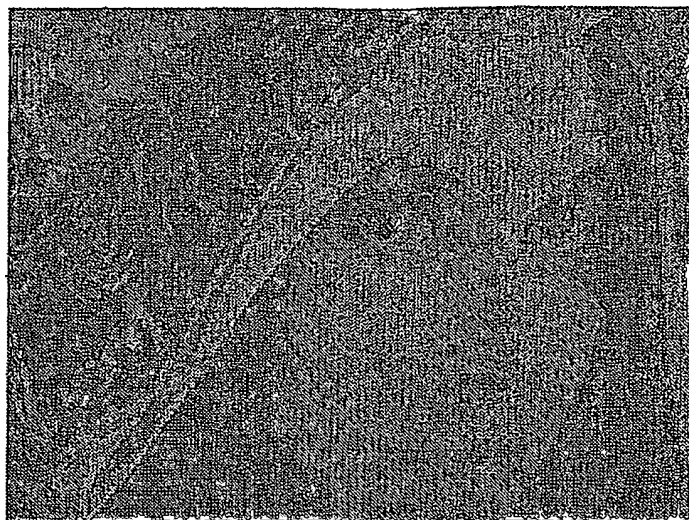
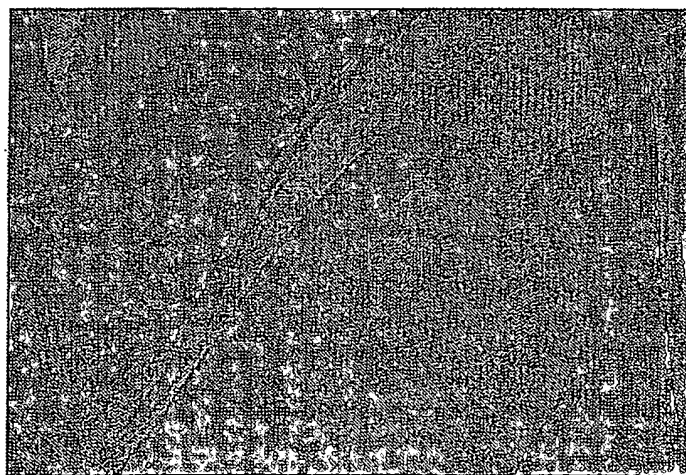


Figure 32



(a)



(b)

Figure 33

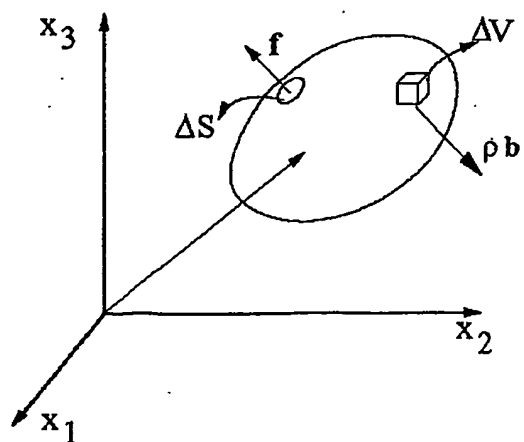


Figure 34

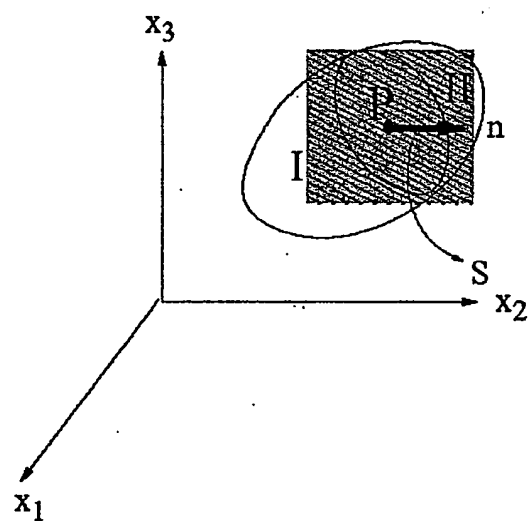


Figure 35

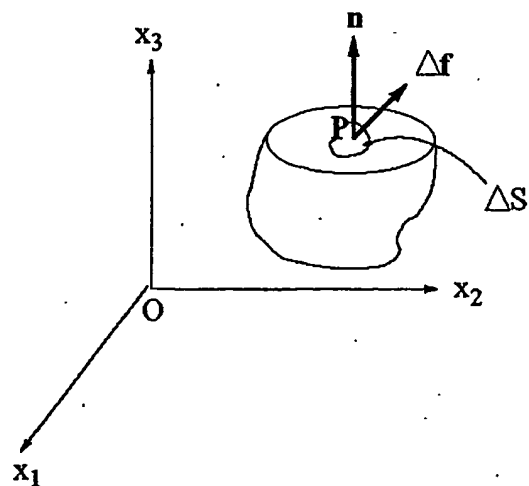


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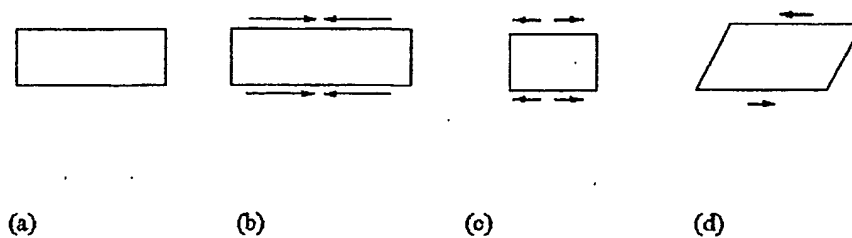


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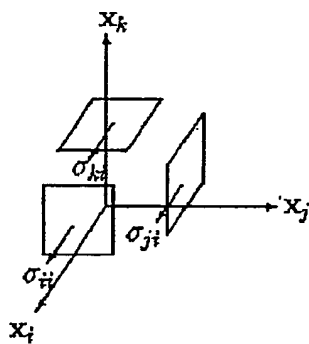


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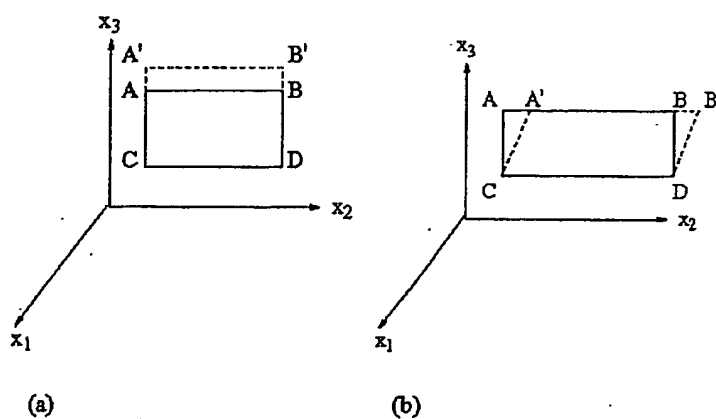


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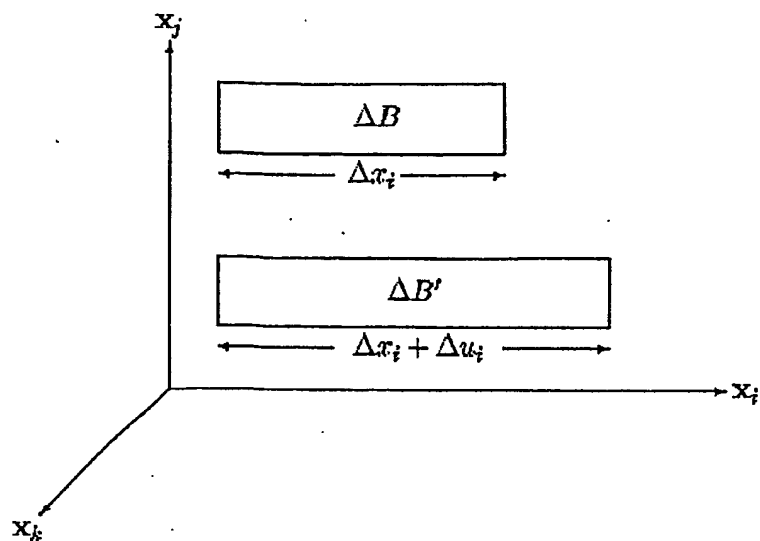


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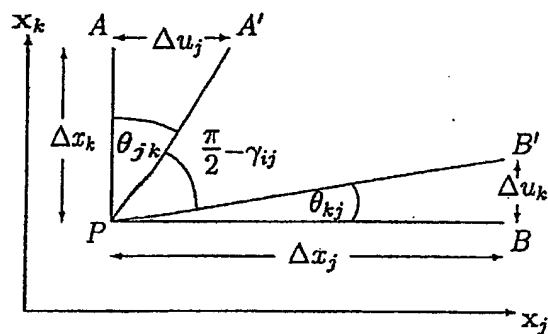


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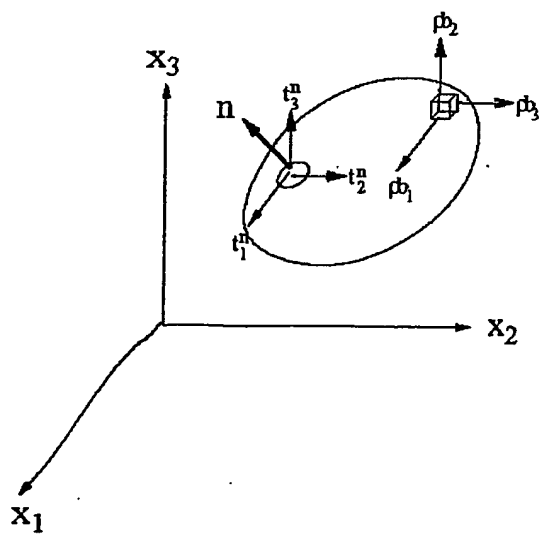


Figure 42

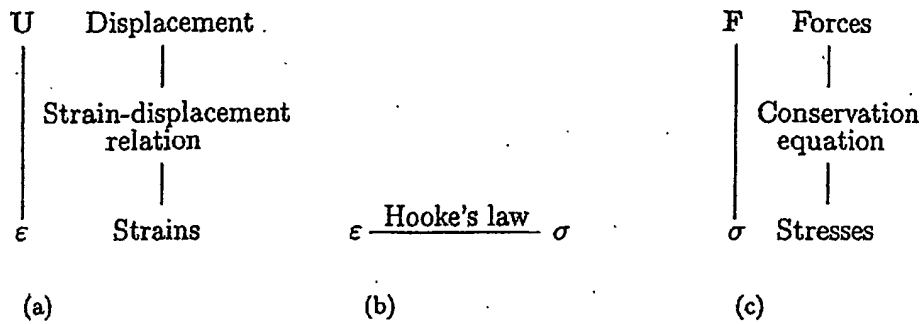


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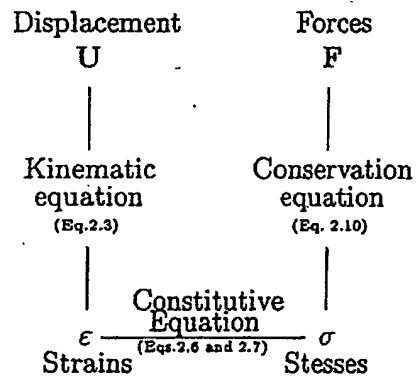


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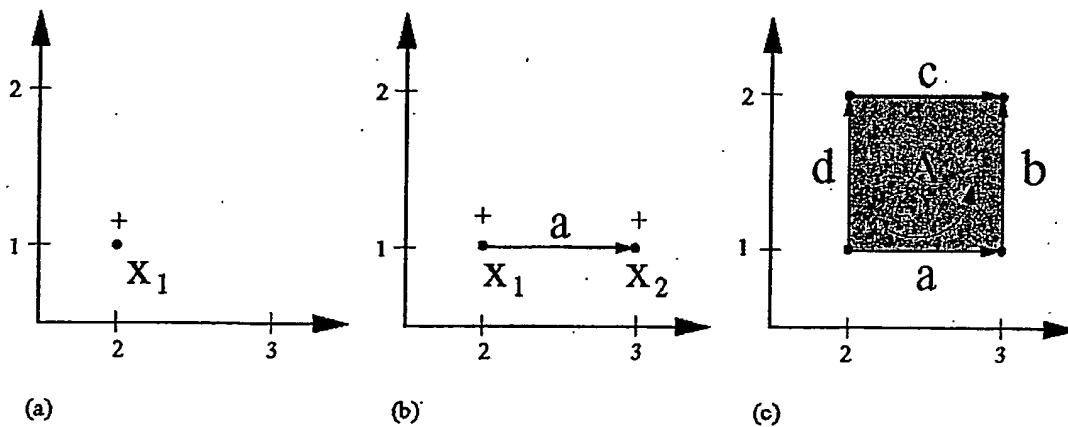


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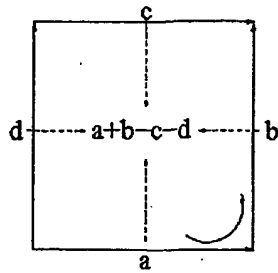


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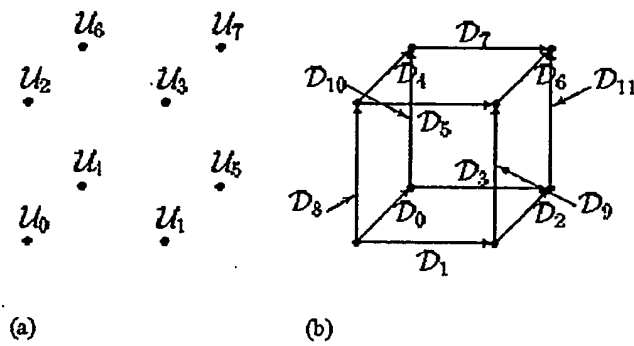


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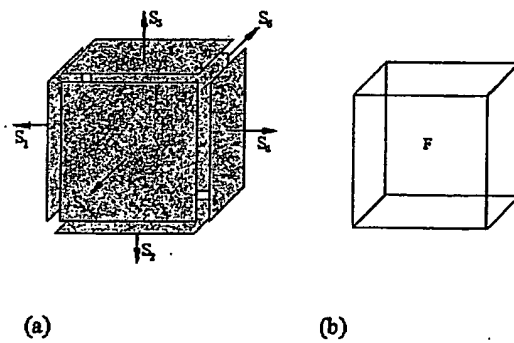


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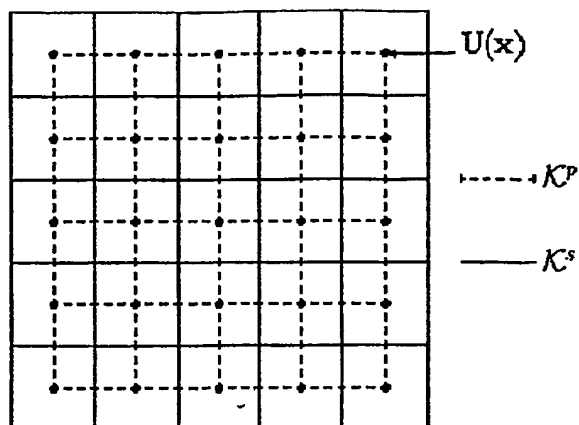


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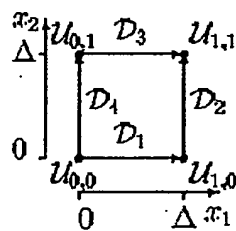


Figure 50

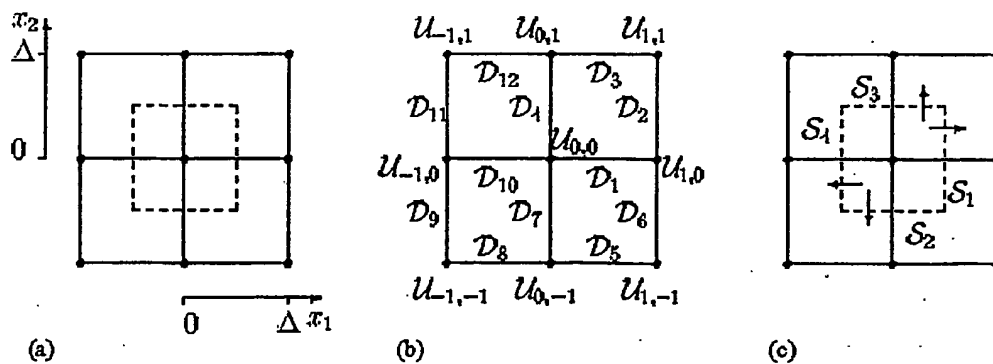


Figure 51

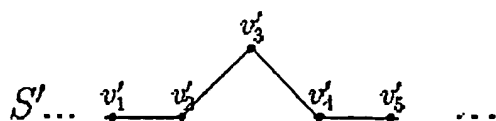
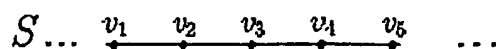


Figure 52

Material	Young's modulus of elasticity ($\times 10^6$ psi)	Poisson's ratio
Aluminium	10	0.33
Iron	29	0.28
Magnesium	6.5	0.33
Nickel	30	0.31
Soft rubber	0.00015	0.49

Figure 53



(a)



(b)

Figure 54



(a)



(b)

Figure 55



Figure 56

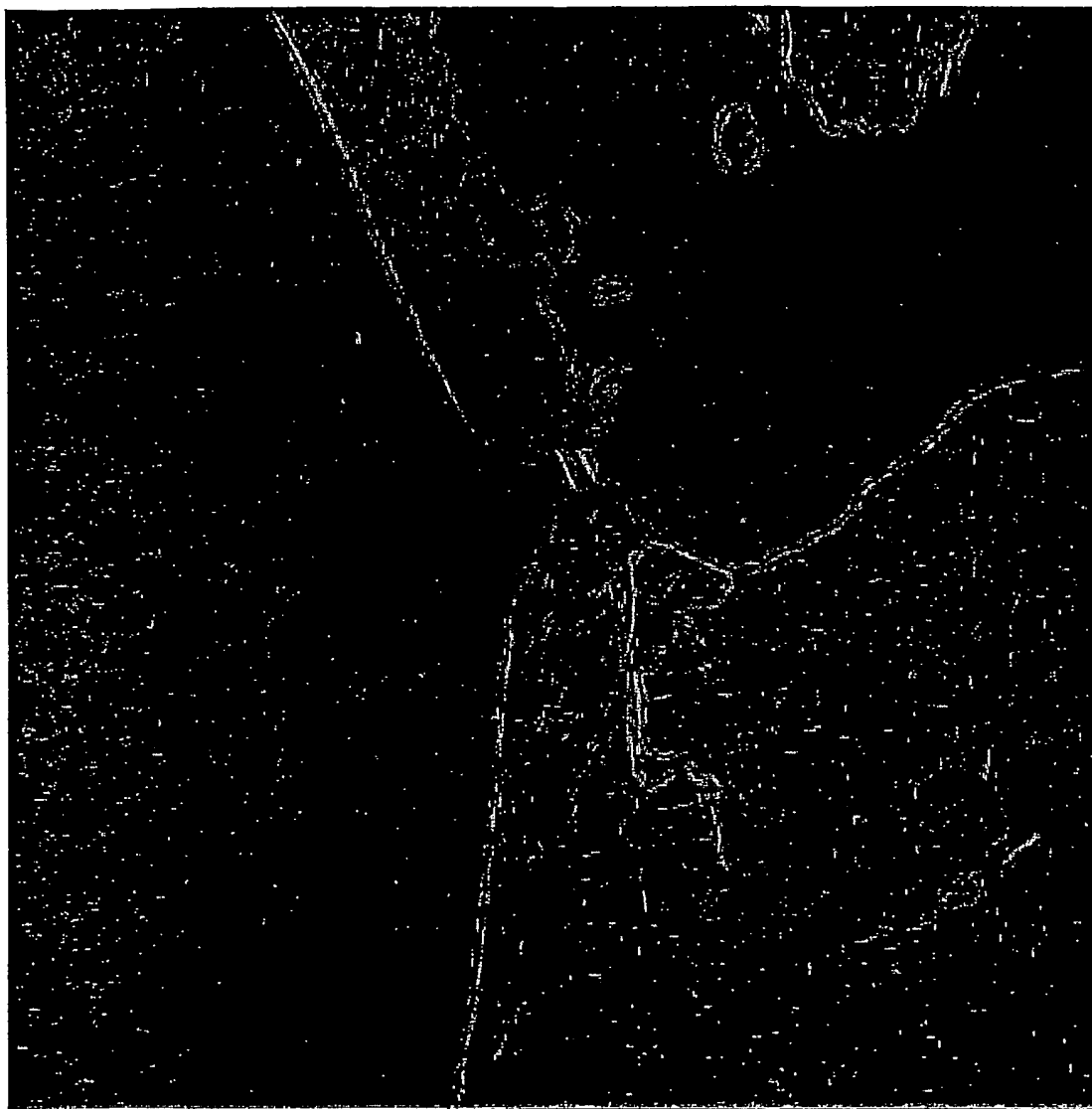


Figure 57

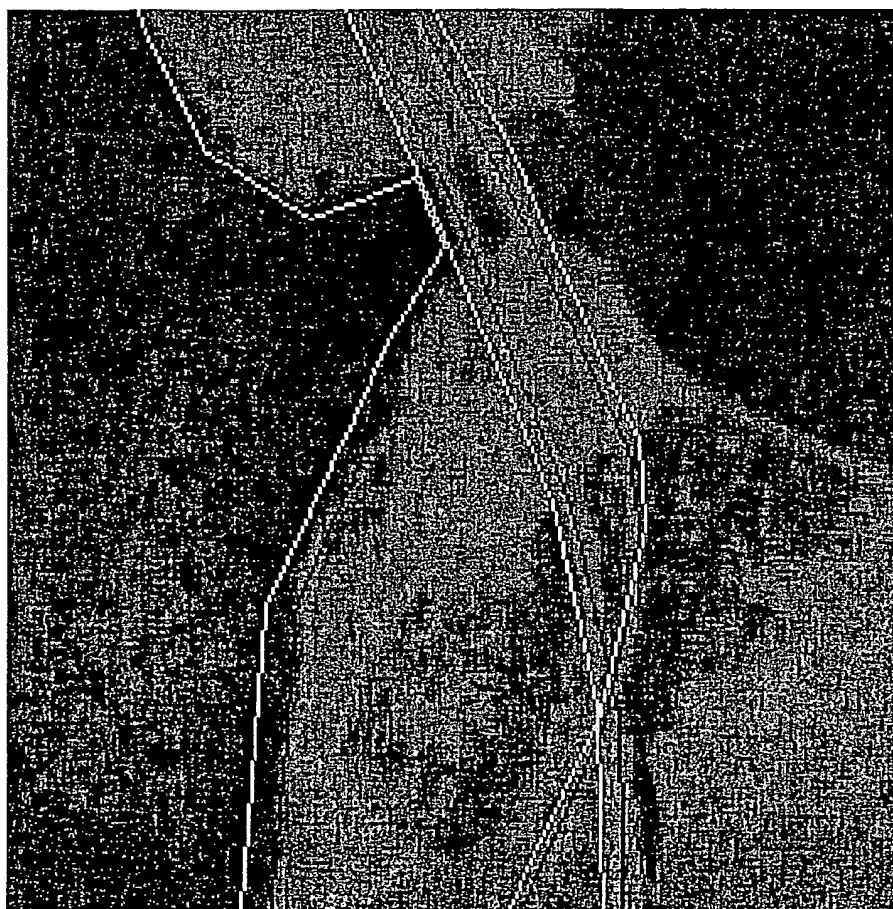


Figure 58

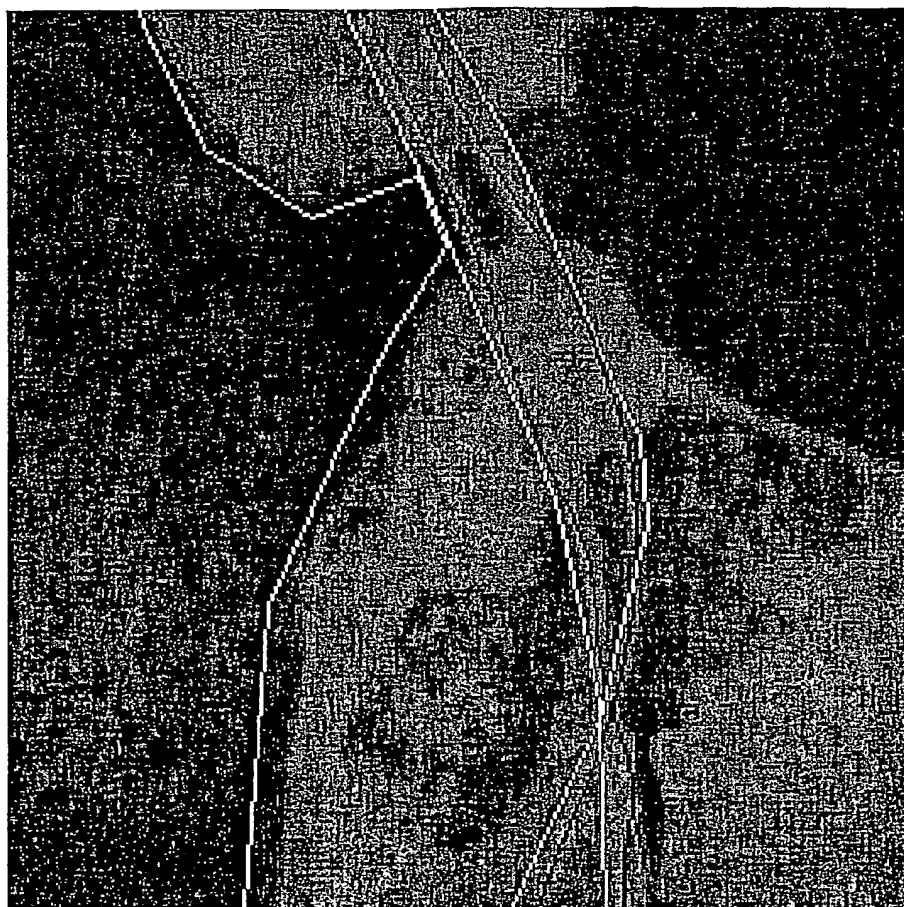


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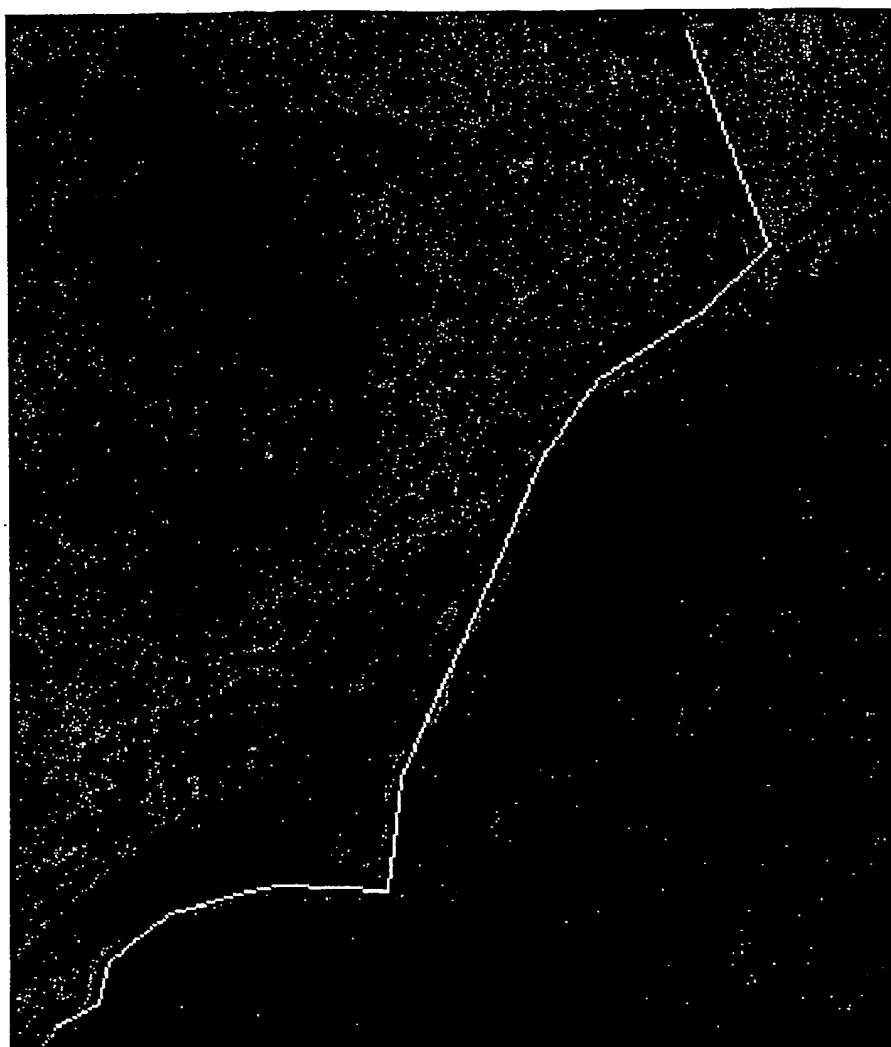


Figure 60

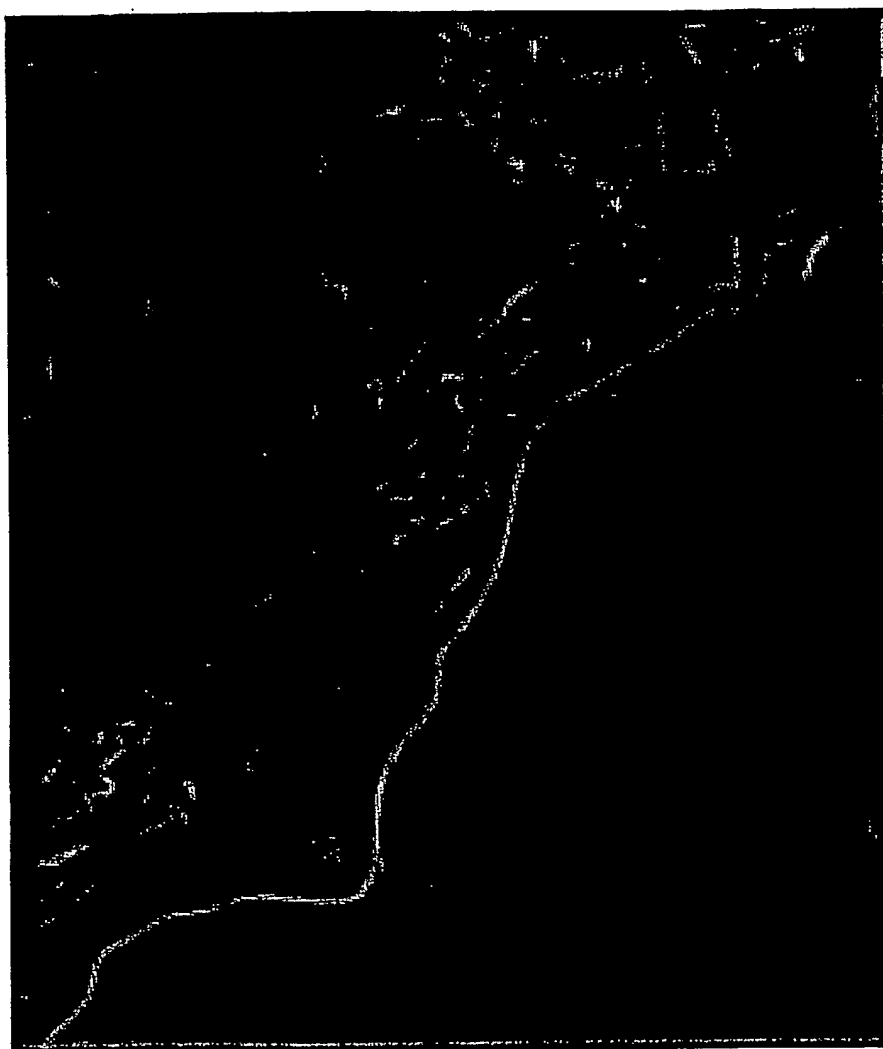


Figure 61

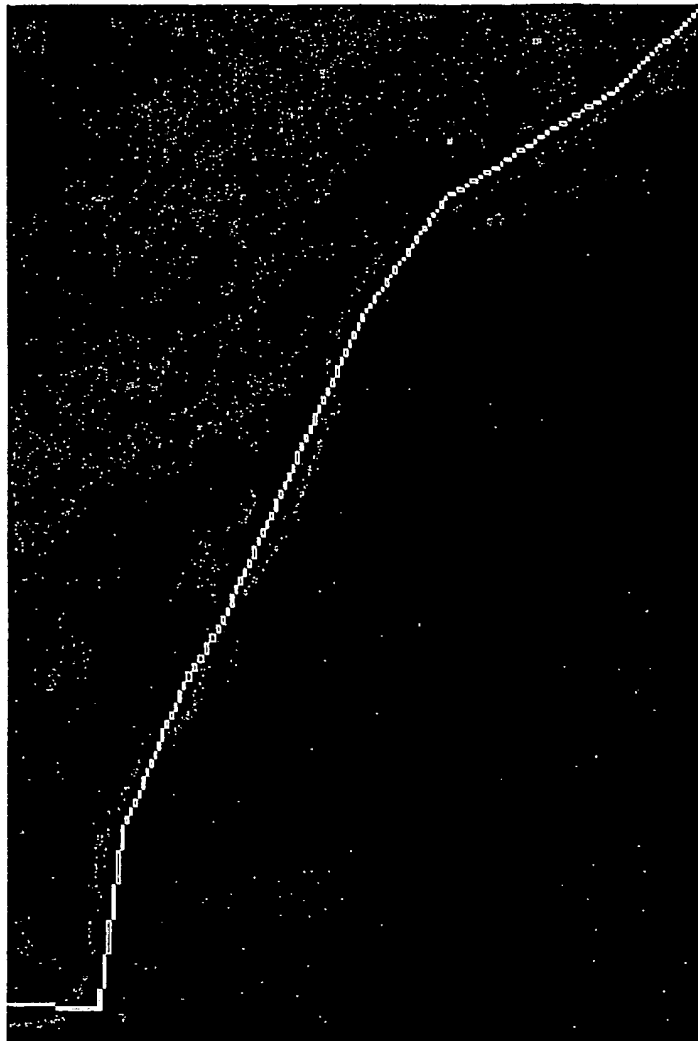


Figure 62

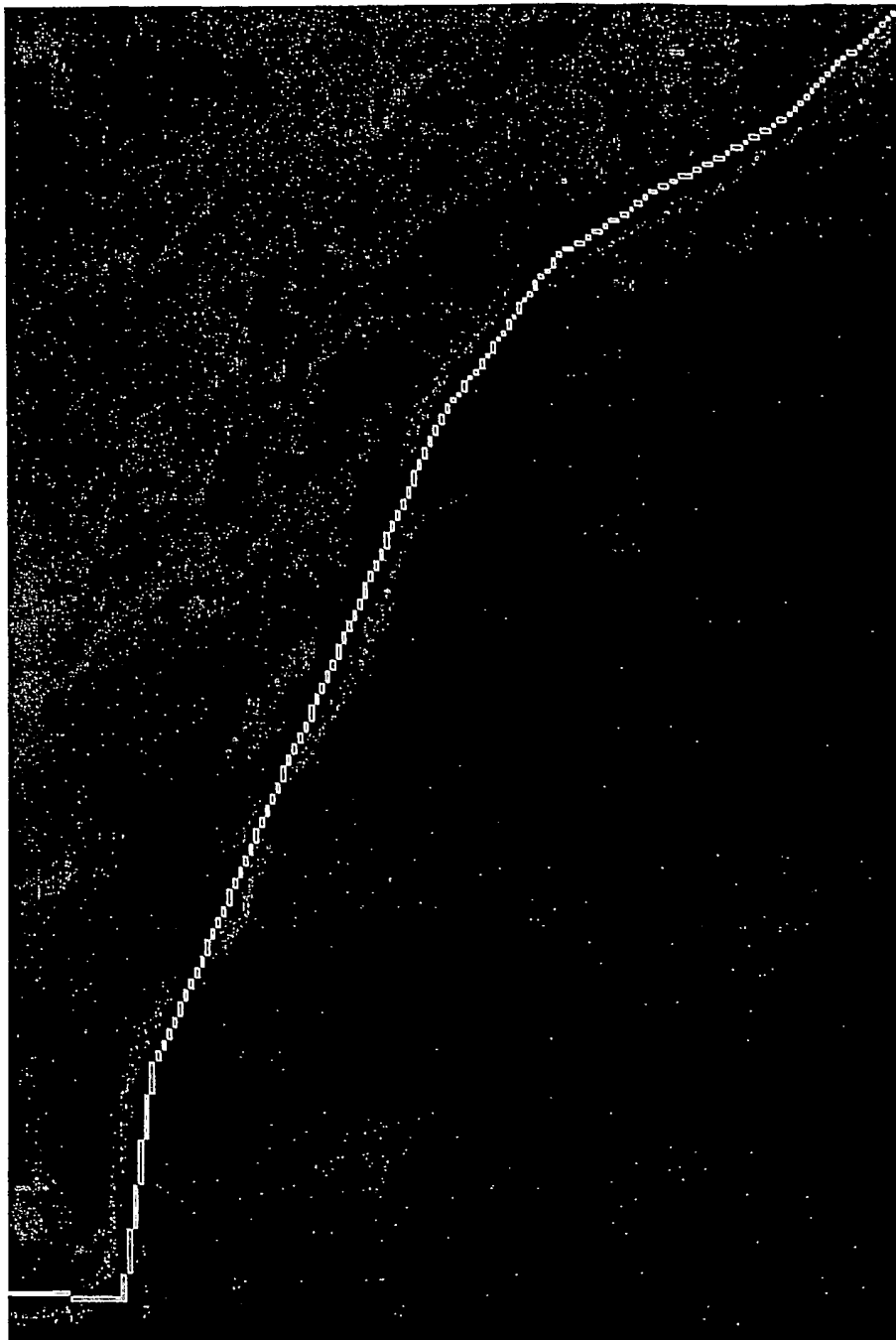


Figure 63

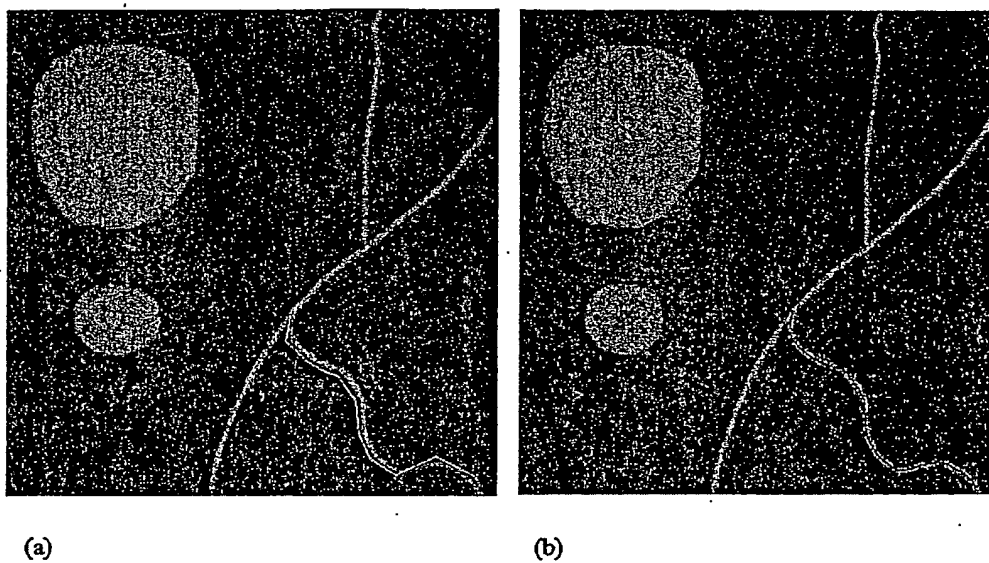
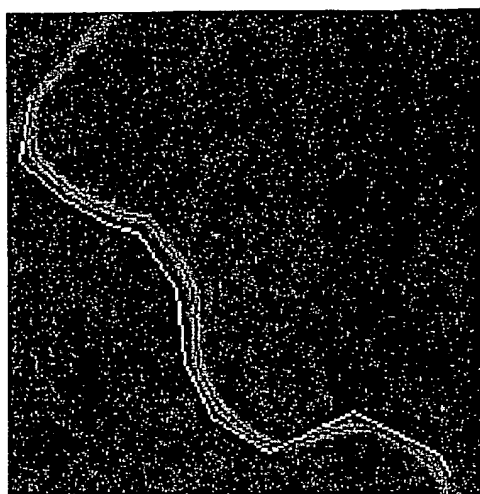
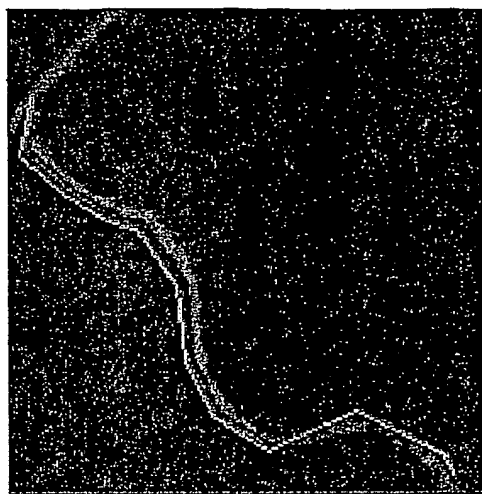


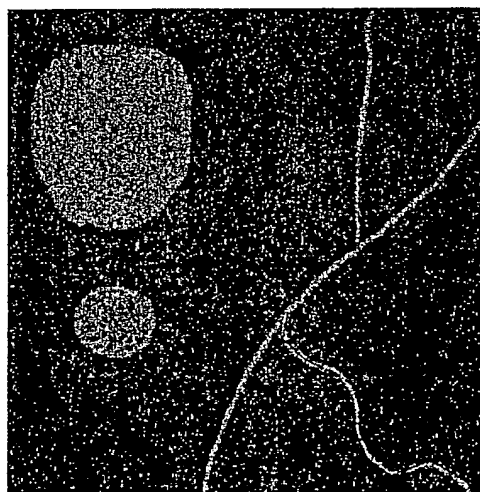
Figure 64



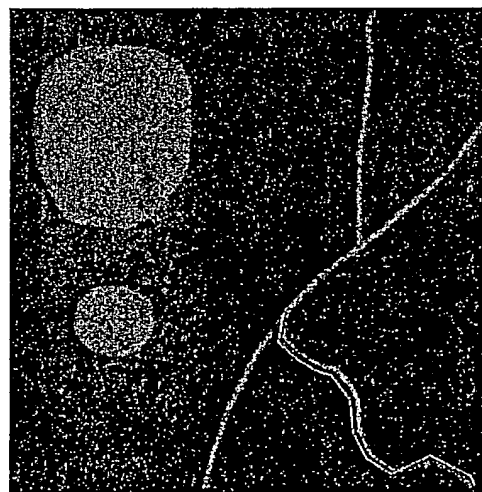
(a)



(b)



(c)



(d)

Figure 65

FIG: 66

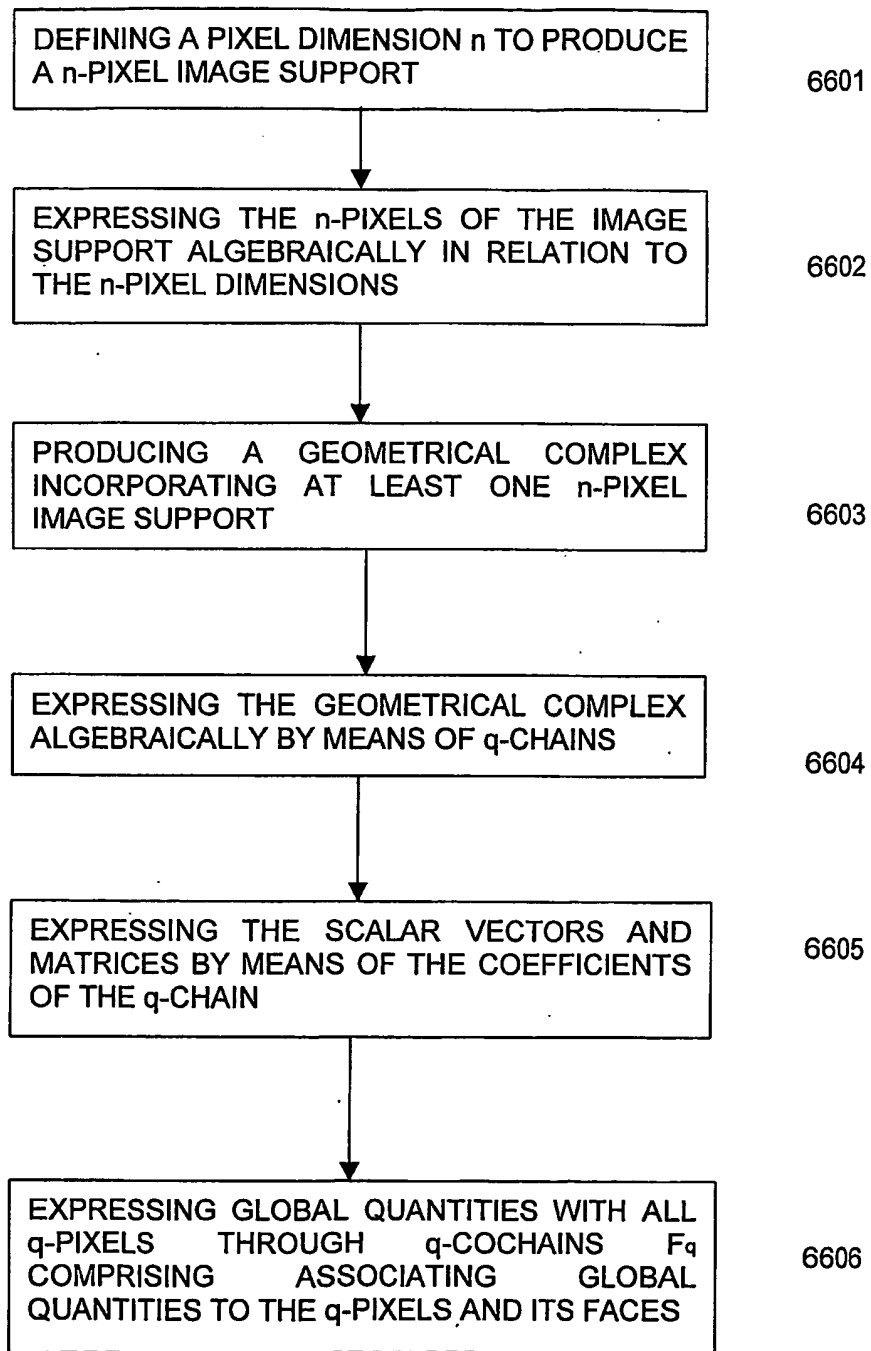
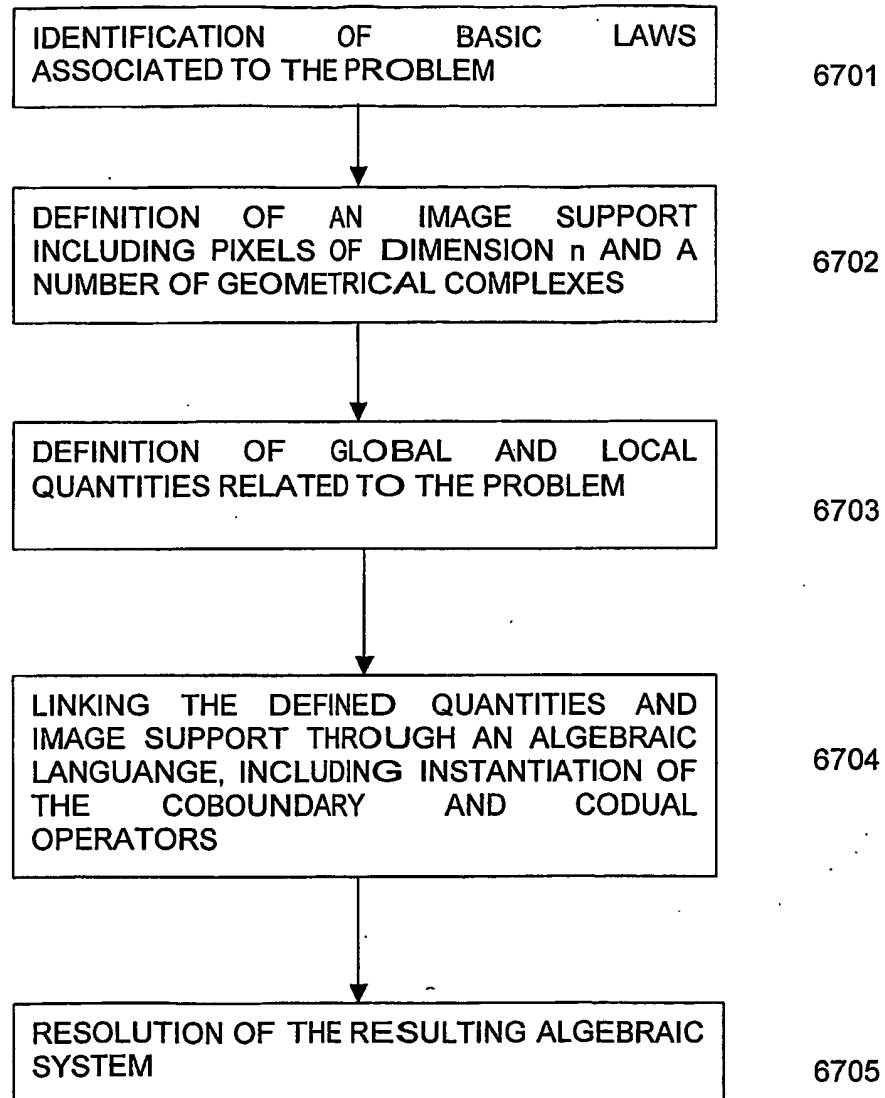


FIG: 67



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